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DATE MAILED: 01/29/2004

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 06/27/2001 Ryuichiro Kurane 210352US0X 8807 09/891,517 01/29/2004 EXAMINER 22850 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. MAHATAN, CHANNING 1940 DUKE STREET PAPER NUMBER ART UNIT ALEXANDRIA, VA 22314 1631

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	n No.	Applicant(s)	
		09/891,5	17	KURANE ET AL.	
	Office Action Summar	Examine	r	Art Unit	
		Channing	S Mahatan	1631	
	The MAILING DATE of this com	munication appears on th	e cov r sheet with	the correspondence a	ddress
Period fo				NTUVO) EDOM	
THE I - External after - If the If NC In Text	ORTENED STATUTORY PERIC MAILING DATE OF THIS COMM nsions of time may be available under the proving state of this experied for reply specified above is less than the proving period for reply is specified above, the maximum to reply within the set or extended period for reply received by the Office later than three modern parts of the proving the provin	MUNICATION. risions of 37 CFR 1.136(a). In no ex- communication. hirty (30) days, a reply within the sta bum statutory period will apply and v r reply will, by statute, cause the ap- onths after the mailing date of this co	vent, however, may a repi tutory minimum of thirty (vill expire SIX (6) MONTH plication to become ABA	y be timely filed 30) days will be considered time IS from the mailing date of this NDONED (35 U.S.C. § 133).	ely. communication.
1)	Responsive to communication(s	s) filed on <u>09 October 200</u>	<u>03</u> .		
2a)□		2b)⊠ This action is n			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disp sit	ion of Claims				
4) 🖂	Claim(s) <u>1-54</u> is/are pending in the application.				
,	4a) Of the above claim(s) 1-22,29-41 and 43-54 is/are withdrawn from consideration.				
5)[Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>23-25</u> is/are rejected.				
	Claim(s) <u>23, 26-28 and 42</u> is/are objected to.				
8)🖂	Claim(s) <u>1-54</u> are subject to res	striction and/or election re	equirement.		
Applicat	tion Papers				
9)	The specification is objected to	by the Examiner.			
10)🛛	The drawing(s) filed on 27 June				ſ.
	Applicant may not request that any				OED 4 404(d)
	Replacement drawing sheet(s) inc	luding the correction is requ	ired if the drawing(s	Office Action or form 5	OFR 1.121(0).
	The oath or declaration is object		note the attached	Onice Action of form f	10-102.
_	under 35 U.S.C. §§ 119 and 12			440(-) (-) (5)	
* 13)□	Acknowledgment is made of a All b Some * c None 1. Certified copies of the pr 2. Certified copies of the pr 3. Copies of the certified co application from the Inte See the attached detailed Office Acknowledgment is made of a c since a specific reference was in 37 CFR 1.78. a) The translation of the forei Acknowledgment is made of a c reference was included in the first	e of: riority documents have be riority documentational Bureau (PCT Re riority action for a list of the cellaim for domestic priority cluded in the first sentence gn language provisional a laim for domestic priority	een received. een received in Appents have been rule 17.2(a)). rtified copies not runder 35 U.S.C. § ce of the specifical	plication No received in this National eceived. § 119(e) (to a provision tion or in an Application en received. §§ 120 and/or 121 since	nal application) on Data Sheet. ce a specific
Attachme	ent(s)				
1) 🛛 Not	tice of References Cited (PTO-892)			ummary (PTO-413) Paper N	
	tice of Draftsperson's Patent Drawing Re prmation Disclosure Statement(s) (PTO-1		5) Notice of In 6) Other:	formal Patent Application (F	'IO-152)

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DETAILED ACTION

APPLICANTS' ELECTION

Applicants' election with traverse of Group IX (claims 23-28 and 42; drawn to a fifth method, PCR-based) in the response, filed 09 October 2003, is acknowledged. The traversal is on the ground(s) that "the Office has not provided adequate reasons and/or examples to support a conclusion of patentable distinctness between the identified groups". This is not found persuasive because the "Election/Restrictions" requirement previously set forth indicated independent and distinct products, methods, and materially different processes of using that product. Groups I-IV are four (4) separate product groups represented as probe sets (1-4), wherein the probe sets provide product limitations that are distinguishable between the products (i.e. no stem loop structure, existence of a particular nucleotide, probe-nucleic acid hybrid complex, location of label on probe). Groups V-XVI are different methods, wherein the methods have differing steps, differing goals, and uses differing products to differing ends (i.e. measurement of fluorescence intensity, measurement of fluorescence change, determination of polymorphism and/or mutation, etc.). Groups I-IV and V-XVI are related as product and process of use, wherein the products of Groups I-IV can be used in the any of the claimed methods of Groups V-XVI. Applicants are directed to the "Election/Restriction Requirement" indicating reasons for distinctness between the identified groups. The requirement is still deemed proper and is therefore made FINAL.

Additionally, the "Election/Restriction Requirement" stated "The claims have been placed in groups to the best of the examiner's ability to decode the improper dependencies of the multiplicity of claims." Applicants' were advised to review the claims, and appropriately amend

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the claims in the groups elected. However, no amendments to resolve the improper dependencies have been presented.

Claims 1-22, 29-41, and 43-54 are withdrawn from further consideration pursuant to 37 C.F.R. § 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicants timely traversed the restriction (election) requirement in the Office Action mailed 09 September 2003.

AMENDMENT TO THE SUBSTITUTE SPECIFICATION

Applicants have indicated the substitute specification has been amended for clarity and to correct typographical errors. However, said amendments have not been entered because there did not appear to be any disclosure or contemplation for these amendments to the specification. It is believed by the Examiner that the amendments represent New Matter in the absence of particular support. For instance, the amendment to replace the paragraph at page 66, lines 4-11, particularly by deleting "decrease" and replacing such language with "change" broadens the scope of the original specification wherein "change" is interpreted to encompass both "decrease" and "increase".

OBJECTION TO CLAIMS

Claims 26-28 and 42 are objected to under 37 C.F.R. § 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim and must refer in the alternative only (claims 26 and 27). See M.P.E.P. § 608.01(n). Accordingly, the claims have not been further treated on the merits.

CLAIMS UNDER EXAMINATION

Claims herein under examination are claims 23-25.

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Claims Rejected Under 35 U.S.C. § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 23-25 are rejected under 35 U.S.C. § 102(b) as being anticipated by Liu et al.

Liu et al. describes a quantitative molecular technique for rapid analysis of microbial community diversity in various environments by employing PCR for amplification and terminal restriction fragment polymorphism analysis (Abstract; pages 4516-4517, beginning on line 12 of the right column; and the 'Materials and Methods' section on page 4517). Thus, Liu et al. anticipates the claimed invention.

Claims 23-25 are rejected under 35 U.S.C. § 102(b) as being anticipated by Aynacioglu et al.

Aynacioglu et al. describes the analysis of polymorphisms of B2AR on a group of subjects by polymerase chain reaction-restriction fragment length polymorphism (PCR-RFLP) (Abstract; page 762 'Methods' section). Thus, Aynacioglu et al. anticipates the claimed invention.

Claims 23-25 are rejected under 35 U.S.C. § 102(b) as being anticipated by Zhang et al.

Zhang et al. describes the quantitative analysis by polymerase chain reaction-single strand conformation polymorphism (PCR-SSCP) of all the exons of two TSC genes in peripheral blood leukocytes from a patient (Abstract). Exons were amplified by PCR and PCR products were subjected to single-stranded conformational polymorphism analysis for quantitification

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(pages 369-370, beginning on the left column line 26). Thus, Zhang et al. anticipates the claimed invention.

Claims 23-25 are rejected under 35 U.S.C. § 102(b) as being anticipated by Sreevatsan et al.

Sreevatsan et al. describes the screening of hepatitis C virus genotypes by employing cleavage fragment length polymorphism (CFLP), wherein clinical samples received for HCV reverse transcription-PCR were genotyped by this method (Abstract). Patient samples were amplified by utilizing a 244 base pair amplicon from the 5' untranslated region of the HCV genome and cleavage fragment length polymorphism analysis was performed on the amplified products ('Materials and Methods' section page 1896). Thus, Sreevatsan et al. anticipates the claimed invention.

No Claims Are Allowed.

EXAMINER INFORMATION

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 C.F.R. § 1.6(d)). The CM1 Fax Center number is either (703) 872-9306.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Channing S. Mahatan whose telephone number is (571) 272-0717. The Examiner can normally be reached on M-F (8:30-5:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Woodward, Ph.D., can be reached on (703) 308-4028.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instruments Examiner, Tina M. Plunkett, whose telephone number is (703) 305-3524 or to the Technical Center receptionist whose telephone number is (703) 308-0196.

Date: January 22, 2004
Examiner Initials: CSM